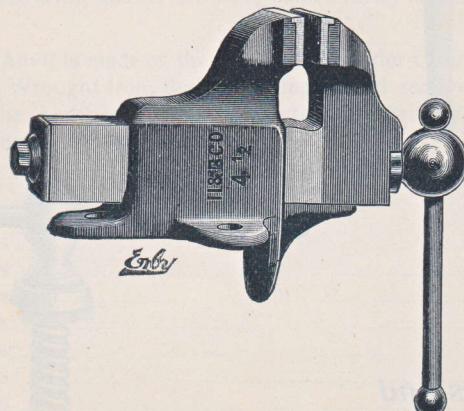


I. I. & B. WOODWORKER'S VISE.

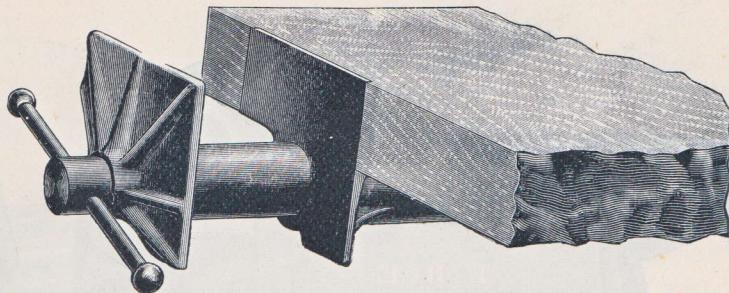
Length of Jaws $4\frac{1}{2}$ inches, opens 9 inches..... \$15.00



I. I. & B. CO. MACHINIST'S VISE.

No. 2 $\frac{1}{2}$, length of Jaws $2\frac{1}{2}$ inches, opens $2\frac{1}{2}$ inches.....	\$ 8.00
No. 3, " " 3 " " $3\frac{1}{2}$ "	9.50
No. 3 $\frac{1}{2}$, " " $3\frac{1}{2}$ " " $4\frac{1}{2}$ "	12.00
No. 4, " " 4 " " $4\frac{1}{2}$ "	15.00
No. 4 $\frac{1}{2}$, " " $4\frac{1}{2}$ " " 5 "	20.00
No. 5, " " 5 " " 7 "	25.00
No. 6, " " 6 " " 8 "	30.00

The Jaws of these Vises are steel-faced. The Beams are planed true on all sides and the Screws are cut with a deep, square thread.

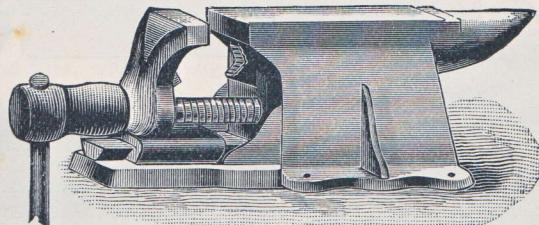
I. I. & B. CO'S. CABINETMAKERS' VISE.

The jaws of this Vise operate parallel, are planed true and smooth, and will hold the work firmly without marring or bruising it.

The Screw being entirely closed makes it impossible for dirt or chips to interfere with its motion.

As will be seen in the above cut the jaws are flush with the top of Bench.

Length of Jaws 9 inches, Jaws open 12 inches..... Price, \$9.00

THE S. & C. ANVIL AND VISE.

This is one of the most convenient tools used.

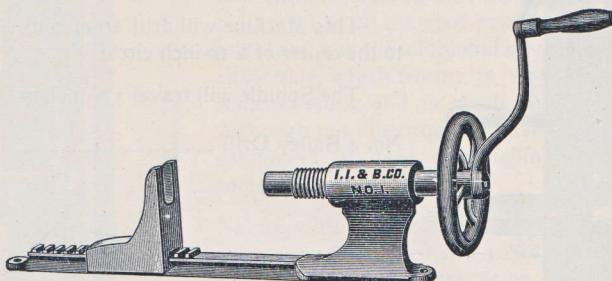
No workshop is complete without one.

Face hardened and polished.

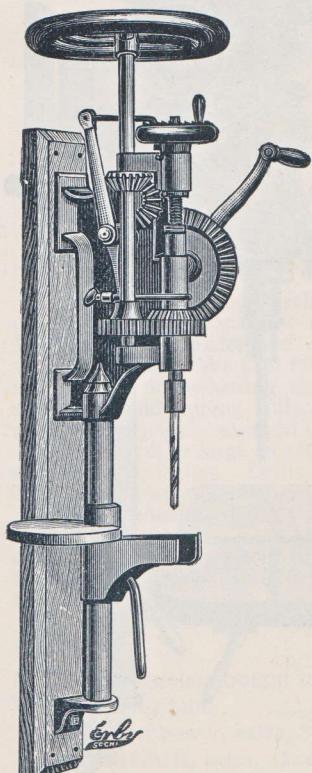
No. 1, 33 pounds..... Price each, \$3.00

BLACKSMITHS' DRILLS.

HORIZONTAL DRILLS.



No. 1, weight 27 lbs Each, \$3.00



BAILEY DRILL NO. 3.

This Drill, being made of the best material, will be found strong and durable, and able to stand a great amount of wear.

The balance-wheel revolving on a vertical bearing causes the Drill to run easily.

The self-feeding devise is adjustable and easily adapted to any kind of work.

An improved cam holds the table firmly in position at any point on the column.

The spindle and feed-screw are of polished steel.

Different speeds may be obtained by changing the crank to different shafts

The balance-wheel may be used, or it can easily be disconnected as the operator may desire.

This machine will drill from 0 to 1-inch hole and to the center of a 10-inch circle.

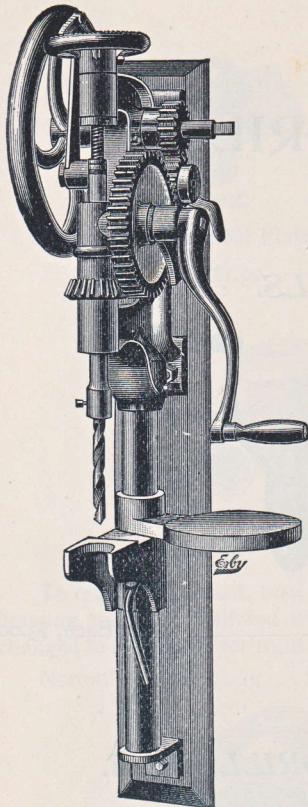
Every Drill is set in perfect line and tested before shipping.

The spindle will travel 3½ inches.

Weight of Drill, 160 pounds.

Takes ½-inch Shank Drills.

No. 3 Bailey, boxed Each, \$22.00



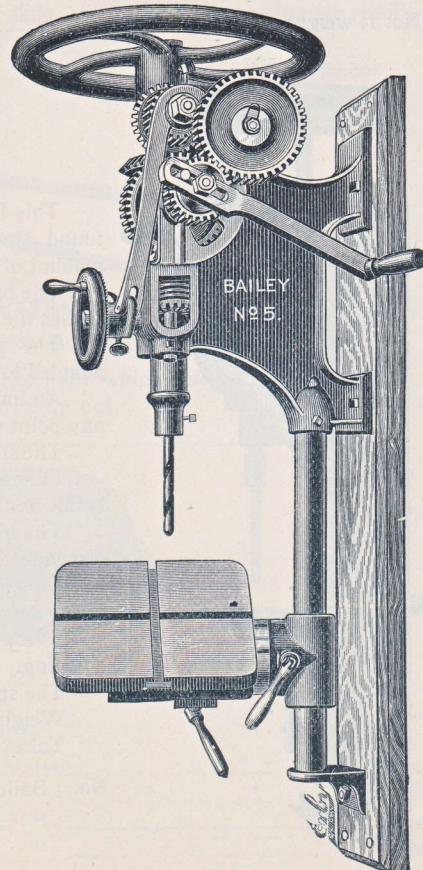
BAILEY DRILL NO. 4.

The Spindle of this Drill is made to receive $\frac{1}{2}$ -inch straight shank Drill Bits, unless otherwise ordered.

This Machine will drill from 0 to 1-inch hole, and to the center of a 16-inch circle.

The Spindle will travel $3\frac{1}{2}$ inches.

No. 4 Bailey Drill Each, \$24.00



BAILEY DRILL NO. 5.

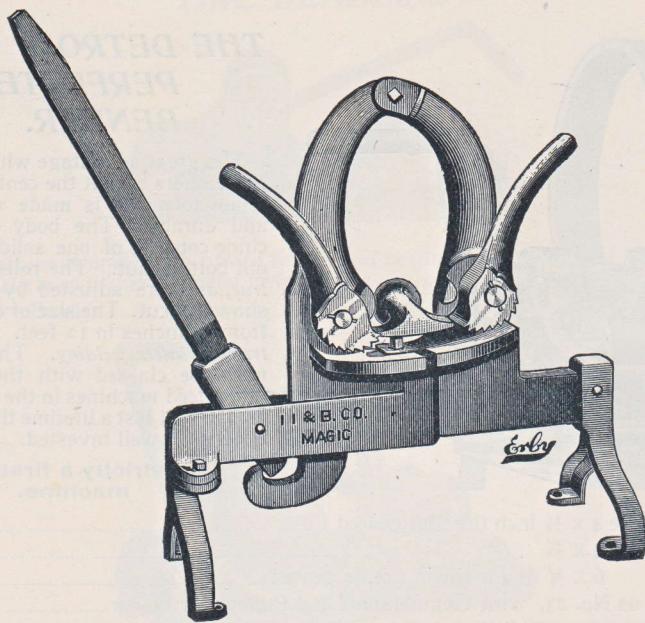
The table of this Drill may be fastened at any point on the column, and can be adjusted to any desired angle convenient to the operator. The work can be clamped to the table the same as on power Drills.

The Spindle runs in a sleeve bearing 9 inches long, which gives it great steadiness and prevents the Spindle from being worn and loose.

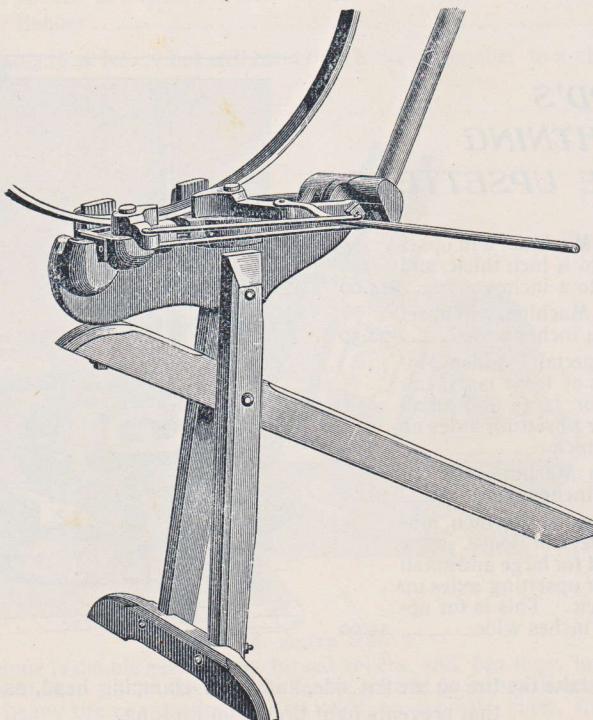
The Spindle of this Drill is made to receive $\frac{1}{4}$ inch straight shank Drill Bits, unless otherwise ordered.

This Machine will drill from 0 to $1\frac{1}{2}$ inches, and to the center of a 16-inch circle. The Spindle travels 4 inches.

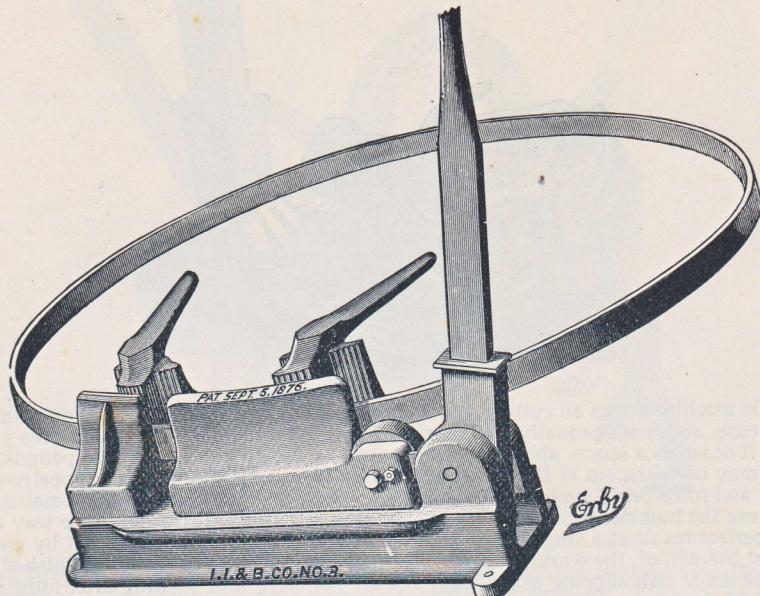
No. 5 Bailey Drill, as shown	\$36.00
No. 5 Bailey Drill, with loose and tight pulleys, for power only	40.00
No. 5 Bailey Drill, with loose and tight pulleys, for hand or power	42.00
No. 5 Bailey Drill, with countershaft and cone pulleys, for power only	60.00

MAGIC TIRE SHRINKER.

This is a strong and durable machine. It is always ready for use and occupies but little room. The Magic will shrink Tire 3 inches wide or smaller. Price.....\$12.00.

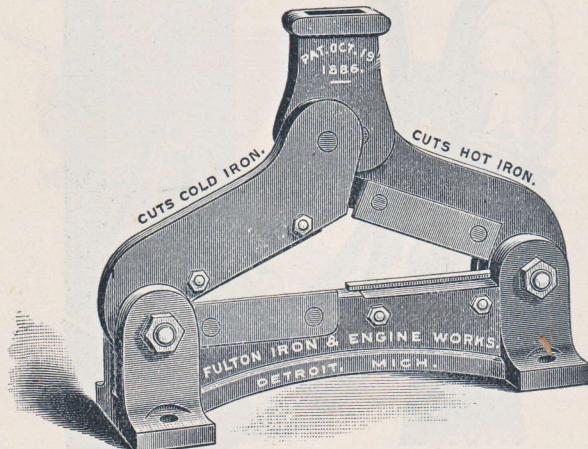
THE O. & D. TIRE SHRINKER AND PUNCH.

This machine has acquired the reputation of being an excellent Tire Shrinker and Punch. The O. & D. will shrink Tire 3 1/4 inches wide or smaller. Price.....\$14.00.

I. I. & B. TIRE SHRINKER.

This Tire Shrinker is especially intended for heavy work, and will shrink Tire 4 inches wide or smaller. All parts are made very strong and will withstand a great amount of wear.

No. 3, I. I. & B. Shrinker \$16.00.

THE DETROIT IRON SHEARS.

This is a new departure. It is powerful but simple compound lever machine, made especially for use of shops and merchants who have occasion to cut iron bars. It will cut $\frac{7}{8}$ inch round or square bar, and $4 \times \frac{1}{2}$ inch cold. Hot up to $2\frac{1}{2}$ inch, or $4 \times 1\frac{1}{2}$ inch. We furnish a lever end to fit the socket, on which a bar can be welded for a handle.

Detroit Iron Shears \$25.00.

LOCOMOTIVE JACK SCREWS.



Diam. of Screw Inches.	Height of Stand. Inches.	Height Over All. Inches.	Lifting Capacity Tons.	Price.	Diam. of Screw Inches.	Height of Stand. Inches.	Height Over All. Inches.	Lifting Capacity Tons.	Price.
1 1/8	6	9	8	\$2.90	2	18	22 1/2	20	\$10.25
1 1/8	8	11	8	3.25	2	20	24 1/2	20	11.50
1 1/8	10	13	8	3.60	2	22	26 1/2	20	12.50
1 1/8	12	15	8	4.00	2	24	28 1/2	20	13.50
1 1/8	14	17	8	4.40	2 1/4	8	13	24	7.50
1 1/4	6	9	10	3.10	2 1/4	10	15	24	8.25
1 1/4	8	11	10	3.40	2 1/4	12	17	24	9.00
1 1/4	10	13	10	3.80	2 1/4	14	19	24	10.00
1 1/4	12	15	10	4.20	2 1/4	16	21	24	11.00
1 1/4	14	17	10	4.60	2 1/4	18	23	24	12.00
1 1/2	5	8	12	3.50	2 1/4	20	25	24	13.25
1 1/2	6	10	12	3.75	2 1/4	22	27	24	14.50
1 1/2	8	12	12	4.25	2 1/4	24	29	24	15.75
1 1/2	10	14	12	4.75	2 1/2	6 1/2	11	28	8.00
1 1/2	12	16	12	5.25	2 1/2	8	14	28	8.75
1 1/2	14	18	12	6.00	2 1/2	10	16	28	9.75
1 1/2	16	20	12	6.75	2 1/2	12	18	28	10.75
1 3/4	6	10	16	4.50	2 1/2	14	20	28	12.00
1 3/4	8	12	16	5.00	2 1/2	16	22	28	13.25
1 3/4	10	14	16	5.75	2 1/2	18	24	28	14.50
1 3/4	12	16	16	6.25	2 1/2	20	26	28	15.75
1 3/4	14	18	16	6.75	2 1/2	22	28	28	17.00
1 3/4	16	20	16	7.50	2 1/2	24	30	28	18.25
1 3/4	18	22	16	8.50	2 1/2	28	34	28	22.00
2	5	9 1/2	20	5.00	2 1/2	32	38	28	26.00
2	6	10 1/2	20	5.25	3	14	20	36	19.50
2	8	12 1/2	20	6.00	3	16	22	36	20.75
2	10	14 1/2	20	6.75	3	18	24	36	22.00
2	12	16 1/2	20	7.50	3	20	26	36	23.25
2	14	18 1/2	20	8.25	3	22	28	36	24.50
2	16	20 1/2	20	9.25	3	24	30	36	25.75